Fill in your name and NetID.  
Please do not open the quiz until I tell you to do so.

**Directions:** Answer the following questions to the best of your ability. When appropriate, we encourage you to show your work, to help us understand your thought process. Quizzes count toward your grade; please take them seriously.
1. Draw a BST which violates the AVL property. Make sure to mark the node(s) which violate the property.

**Solution:** Solutions will vary. Example below:

```
      1  <- bad!
       \  
        2  
         \ 
          3
```

2. Draw an AVL tree, of height 3, which has as few nodes as possible.

**Solution:**

```
      5
     /  \
    /--  --\  
  / 3    7  
 /\    /  
2 4 6 /
1
```